



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of: Viktor M. Keller, et al  
Serial Number: 10/716,683  
Filed: 11/19/2003  
Examiner: Not Yet Assigned  
Art Unit: 3711  
Title: Multi-Layer Golf Ball with Reaction Injection Molded Polyurethane Component

INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA  
22313-1450

SIR:

- ☒ 1 Pursuant to 37 CFR 1.97(b)  
[within 3 months of filing or prior to 1st Office Action]
- ☐ 2 Certification Pursuant to 37 CFR 1.97(c)  
[before Final Office Action or Allowance]
- ☐ 3 Fee Payment Pursuant to 37 CFR 1.97(c)  
[before Final Office Action or Allowance]
- ☐ 4 Certification & Fee Payment Pursuant to 37 CFR 1.97(d)  
[after mailing of Final Office Action or before issue fee payment]

The following are submitted in the above-identified application in compliance with 37 CFR 1.97 & 1.98:

- ☒ 5 A list of documents on form PTO-1449. Copies of each identified document are on file in a parent application.

This paper is submitted in accordance with:

- ☒ 6 37 CFR 1.97(b): [within 3 months of filing or prior to 1st Office Action]

---

CERTIFICATE OF MAILING (37 C.F.R. 1.8a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Commissioner of Patents, P.O. Box 1450 Alexandria, VA 22313-1450, on this 25<sup>th</sup> day of March, 2004.

Leslie A. Ignatidis

☐ 7 37 CFR 1.97(c): [before Final Office Action or Allowance, whichever is earlier];

☐ a. The required certification made in item 9 below;

or

☐ b. The \$180.00 fee specified in 37 CFR §1.17(p) for submission of this Information Disclosure Statement is authorized in item 10 below.

☐ 8 37 CFR §1.97(d): [after mailing of Final Office Action and before issue fee payment];  
and

☐ a. The required Certification is stated in item 9 below and

☐ b. The \$180.00 fee specified in 37 CFR §1.17(p) for submission of this Information Disclosure Statement is authorized in item 10 below.

☐ 9 Certification

☐ a. Each item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement; or

☐ b. No item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing this document after making reasonable inquiry, was known to any individual designated in 37 CFR 1.56(c) more than three (3) months prior to the filing of this Statement.

☒ 10 Please charge all applicable fees associated with the submittal of this Information Disclosure Statement to **Deposit Account No.17-0150**.

Respectfully submitted,

Viktor M. Keller, et al

Date: March 25, 2004  
(413) 322-2937  
Customer No. 24492

By Michelle Bugbee  
Michelle Bugbee, Reg. No. 42,370  
Attorney for Applicant  
The Top-Flite Golf Company  
425 Meadow Street, P. O. Box 901  
Chicopee, MA 01021-0901



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 10

**Complete if Known**

Application Number	10/716,683
Filing Date	11/19/2003
First Named Inventor	Viktor M. Keller
Art Unit	3711
Examiner Name	Not Yet Assigned
Attorney Docket Number	P-4628-2-D1-1-C1

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 2,741,480	04-10-1956	Smith	
		US- 2,973,800	03-07-1961	Muccino	
		US- 3,053,539	09-11-1962	Piechowski	
		US- 3,264,272	08-02-1966	Rees	
		US- 3,313,545	04-11-1967	Bartsch	
		US- 3,373,123	03-12-1968	Brice	
		US- 3,384,612	05-21-1968	Brandt, et al	
		US- 3,395,109	07-30-1968	Molitor, et al	
		US- 3,458,205	07-29-1969	Smith, et al	
		US- 3,502,338	03-24-1970	Cox	
		US- 3,534,965	10-20-1970	Harrison, et al	
		US- 3,572,721	03-30-1971	Harrison, et al	
		US- 3,883,145	05-13-1975	Cox, et al	
		US- 3,979,126	09-07-1976	Dusbiber	
		US- 3,989,568	11-02-1976	Isaac	
		US- 4,076,255	02-28-1978	Moore, et al	
		US- 4,085,937	04-25-1978	Schenk	
		US- 4,123,061	10-31-1978	Dusbiber	
		US- 4,190,711	02-26-1980	Zdrahala, et al	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		JP 1,771,941	08-06-1992			
		JP 1,795,357	01-19-1993			
		GB 494,031	10-19-1938	Twiss, et al		
		GB 2,245,580	01-08-1992	Hwang, et al		
		GB 2,248,067	03-25-1992	Viollaz		
		GB 2,264,302	08-25-1993	Pocklington		

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

2

of

10

**Complete if Known**

Application Number	10/716,683
Filing Date	11/19/2003
First Named Inventor	Viktor M. Keller
Art Unit	3711
Examiner Name	Not Yet Assigned
Attorney Docket Number	P-4628-2-D1-1-C1

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 4,218,543	08-19-1980	Weber, et al	
		US- 4,248,432	02-03-1981	Hewitt, et al	
		US- 4,272,079	06-09-1981	Nakade, et al	
		US- 4,274,637	06-23-1981	Molitor	
		US- 4,337,946	07-06-1982	Saito, et al	
		US- 4,431,193	02-14-1984	Nesbitt	
		US- 4,442,282	04-10-1984	Kolycheck	
		US- 4,570,937	02-18-1986	Yamada	
		US- 4,582,887	04-15-1986	Dominguez, et al	
		US- 4,590,219	05-20-1986	Nissen, et al	
		US- 4,607,090	08-19-1986	Dominguez	
		US- 4,650,193	03-17-1987	Molitor, et al	
		US- 4,674,751	06-23-1987	Molitor, et al	
		US- 4,679,795	07-14-1987	Melvin, et al	
		US- 4,683,257	07-28-1987	Kakiuchi, et al	
		US- 4,688,801	08-25-1987	Reiter	
		US- 4,690,981	09-01-1987	Statz	
		US- 4,695,055	09-22-1987	Newcomb, et al	
		US- 4,714,253	12-22-1987	Nakahara, et al	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		GB 2,291,811	02-07-1996	Kakiuchi, et al		
		GB 2,291,812	02-07-1996	Lee		
		CA 2,137,841	06-30-1995	Endo		
		EP 0,589,647	03-30-1994	Endo, et al		
		EP 0,630,665	12-28-1994	Proudfit		
		EP 0,637,459	02-08-1995	Yamagishi, et al		

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet **3** of **10****Complete if Known**

Application Number	10/716,683
Filing Date	11/19/2003
First Named Inventor	Viktor M. Keller
Art Unit	3711
Examiner Name	Not Yet Assigned
Attorney Docket Number	P-4628-2-D1-1-C1

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 4,762,322	08-09-1988	Molitor, et al	
		US- 4,798,386	01-17-1989	Berard	
		US- 4,848,770	07-18-1989	Shama	
		US- 4,852,884	08-01-1989	Sullivan	
		US- 4,858,923	08-22-1989	Gobush, et al	
		US- 4,858,924	08-22-1989	Saito, et al	
		US- 4,878,674	11-07-1989	Newcomb, et al	
		US- 4,884,814	12-05-1989	Sullivan	
		US- 4,911,451	03-27-1990	Sullivan, et al	
		US- 4,919,434	04-24-1990	Saito	
		US- 4,957,297	09-18-1990	Newcomb, et al	
		US- 4,979,746	12-25-1990	Gentiluomo	
		US- 4,984,804	01-15-1991	Yamada, et al	
		US- 4,986,545	01-22-1991	Sullivan	
		US- 5,002,281	03-26-1991	Nakahara, et al	
		US- 5,006,297	04-09-1991	Brown, et al	
		US- 5,019,319	05-28-1991	Nakamura, et al	
		US- 5,026,067	06-25-1991	Gentiluomo	
		US- 5,035,425	07-30-1991	Edwards	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND

TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 4 of 10

**Complete if Known**

Application Number	10/716,683
Filing Date	11/19/2003
First Named Inventor	Viktor M. Keller
Art Unit	3711
Examiner Name	Not Yet Assigned
Attorney Docket Number	P-4628-2-D1-1-C1

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 5,045,591	09-03-1991	Meyer, et al	
		US- 5,048,838	09-17-1991	Chikaraishi, et al	
		US- 5,068,151	11-26-1991	Nakamura	
		US- 5,072,944	12-17-1991	Nakahara, et al	
		US- 5,096,201	03-17-1992	Egashara, et al	
		US- 5,098,105	03-24-1992	Sullivan	
		US- 5,104,126	04-14-1992	Gentiluomo	
		US- 5,120,791	06-09-1992	Sullivan	
		US- 5,142,835	09-01-1992	Mrocca	
		US- 5,150,906	09-29-1992	Molitor, et al	
		US- 5,156,405	10-20-1992	Kitaoh, et al	
		US- 5,184,828	02-09-1993	Kim, et al	
		US- 5,187,013	02-16-1993	Sullivan	
		US- 5,197,740	03-30-1993	Pocklington, et al	
		US- 5,219,973	06-15-1993	Slack, et al	
		US- 5,222,739	06-29-1993	Horiuchi, et al	
		US- 5,244,969	09-14-1993	Yamada	
		US- 5,253,871	10-19-1993	Viollaz	
		US- 5,273,286	12-28-1993	Sun	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

Examiner Signature	Date Considered
-----------------------	--------------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 5 of 10**Complete if Known**

Application Number	10/716,683
Filing Date	11/19/2003
First Named Inventor	Viktor M. Keller
Art Unit	3711
Examiner Name	Not Yet Assigned
Attorney Docket Number	P-4628-2-D1-1-C1

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 5,273,287	12-28-1993	Molitor, et al	
		US- 5,274,041	12-28-1993	Yamada	
		US- 5,281,651	01-25-1994	Arjunan, et al	
		US- 5,300,334	04-05-1994	Niederst, et al	
		US- 5,304,608	04-19-1994	Yabuki, et al	
		US- 5,306,760	04-26-1994	Sullivan	
		US- 5,312,857	05-17-1994	Sullivan	
		US- 5,314,187	05-24-1994	Proudfit	
		US- 5,324,783	06-28-1994	Sullivan	
		US- 5,330,837	07-19-1994	Sullivan	
		US- 5,334,673	08-02-1994	Wu	
		US- 5,338,610	08-16-1994	Sullivan	
		US- 5,356,941	10-18-1994	Sullivan, et al	
		US- 5,368,304	11-29-1994	Sullivan, et al	
		US- 5,368,806	11-29-1994	Harasin, et al	
		US- 5,387,750	02-07-1995	Chiang	
		US- 5,403,010	04-04-1995	Yabuki, et al	
		US- 5,439,227	08-08-1995	Egashira, et al	
		US- 5,480,155	01-02-1996	Molitor, et al	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

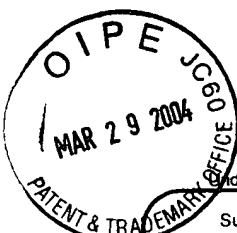
Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND

TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 6 of 10

## Complete if Known

Application Number	10/716,683
Filing Date	11/19/2003
First Named Inventor	Viktor M. Keller
Art Unit	3711
Examiner Name	Not Yet Assigned
Attorney Docket Number	P-4628-2-D1-1-C1

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 5,482,285	01-09-1996	Yabuki, et al	
		US- 5,484,870	01-16-1996	Wu	
		US- 5,490,673	02-13-1996	Hiraoka	
		US- 5,490,674	02-13-1996	Hamada, et al	
		US- 5,492,972	02-20-1996	Stefani	
		US- 5,553,852	09-10-1996	Higuchi, et al	
		US- 5,586,950	12-24-1996	Endo	
		US- 5,628,699	05-13-1997	Maruko, et al	
		US- 5,668,239	09-16-1997	Nodelman, et al	
		US- 5,674,137	10-07-1997	Maruko, et al	
		US- 5,688,191	11-18-1997	Cavallaro, et al	
		US- 5,692,974	12-02-1997	Wu, et al	
		US- 5,730,665	03-24-1998	Shimosaka, et al	
		US- 5,733,206	03-31-1998	Nesbitt, et al	
		US- 5,733,207	03-31-1998	Sullivan, et al	
		US- 5,733,428	03-31-1998	Calabria, et al	
		US- 5,739,247	04-14-1998	Lesko, et al	
		US- 5,739,253	04-14-1998	Nodelman, et al	
		US- 5,750,580	05-12-1998	Mayer, et al	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

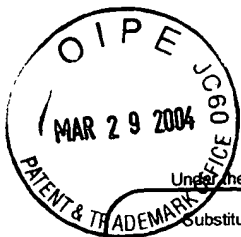
Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.





PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 7 of 10

**Complete if Known**

Application Number	10/716,683
Filing Date	11/19/2003
First Named Inventor	Viktor M. Keller
Art Unit	3711
Examiner Name	Not Yet Assigned
Attorney Docket Number	P-4628-2-D1-1-C1

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 5,759,676	06-02-1998	Cavallaro, et al	
		US- 5,779,561	07-14-1998	Sullivan, et al	
		US- 5,779,562	07-14-1998	Melvin, et al	
		US- 5,779,563	07-14-1998	Yamagishi, et al	
		US- 5,783,293	07-21-1998	Lammi	
		US- 5,792,008	08-11-1998	Kakiuchi, et al	
		US- 5,797,808	08-25-1998	Hayashi, et al	
		US- 5,800,284	09-01-1998	Sullivan, et al	
		US- 5,803,831	09-08-1998	Sullivan, et al	
		US- 5,810,678	09-22-1998	Cavallaro, et al	
		US- 5,813,923	09-29-1998	Cavallaro, et al	
		US- 5,816,937	10-06-1998	Shimosaka, et al	
		US- 5,820,488	10-13-1998	Sullivan, et al	
		US- 5,820,489	10-13-1998	Sullivan, et al	
		US- 5,820,491	10-13-1998	Hatch, et al	
		US- 5,827,167	10-27-1998	Dougan, et al	
		US- 5,830,087	11-03-1998	Sullivan, et al	
		US- 5,833,553	11-10-1998	Sullivan, et al	
		US- 5,833,554	11-10-1998	Sullivan, et al	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 8

of 10

**Complete if Known**

Application Number	10/716,683
Filing Date	11/19/2003
First Named Inventor	Viktor M. Keller
Art Unit	3711
Examiner Name	Not Yet Assigned
Attorney Docket Number	P-4628-2-D1-1-C1

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 5,836,833	11-17-1998	Shimosaka, et al	
		US- 5,849,168	12-15-1998	Lutz	
		US- 5,856,388	01-05-1999	Harris, et al	
		US- 5,863,264	01-26-1999	Yamagishi, et al	
		US- 5,873,796	02-23-1999	Cavallaro, et al	
		US- 5,885,172	03-23-1999	Hebert, et al	
		US- 5,888,437	03-30-1999	Calabria, et al	
		US- 5,891,973	04-06-1999	Sullivan, et al	
		US- 5,897,884	04-27-1999	Calabria, et al	
		US- 5,899,822	05-04-1999	Yamagishi, et al	
		US- 5,902,192	05-11-1999	Kashiwagi, et al	
		US- 5,908,358	06-01-1999	Wu	
		US- 5,919,100	07-06-1999	Boehm, et al	
		US- 5,919,862	07-06-1999	Rajagopalan	
		US- 5,922,252	07-13-1999	Stanton, et al	
		US- 5,929,189	07-27-1999	Ichikawa, et al	
		US- 5,935,021	08-10-1999	Kashiwagi, et al	
		US- 5,947,842	09-07-1999	Cavallaro, et al	
		US- 5,947,843	09-07-1999	Calabria, et al	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.





PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/716,683
Filing Date	11/19/2003
First Named Inventor	Viktor M. Keller
Art Unit	3711
Examiner Name	Not Yet Assigned
Attorney Docket Number	P-4628-2-D1-1-C1

Sheet	10	of	10
-------	----	----	----

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Product Announcement, "New Polyurea System Offering Rapid Mold Times and Excellent Thermal Stability for Automotive Fascias is Introduced by Mobay", PRNewswire, March 1, 1998	
		Cytec Industries, Inc., "TMXDI (META) Aliphatic Isocyanates", brochure, pp.2-11, 9/94	
		Miles, Inc., "Engineering Polymers Properties Guide Thermoplastics and Thermosets", brochure, pp.2-23, 5/94	
		Bayer Corporation, "Engineering Polymers RIM and Part Mold Design", brochure, pp.1-85, 5/95	
		Mobay Corporation, "The Chemistry of Polyurethane Coatings", A General Reference Manual, pp. 2-15	
		Bayer Corporation, " Engineering Polymers Properties Guide Thermoplastics and Polyurethanes", brochure, pp. 2-7, 28-29	
		Polyurethane Handbook, "Chemistry-Raw Materials-Processing Applications-Properties", edited by Oertel et al, Hanser/Gardner Publications, Inc., 101,102 (1994)	

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.